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SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

**FORM 8-K**

CURRENT REPORT  
PURSUANT TO SECTION 13 OR 15(D)  
OF THE SECURITIES EXCHANGE ACT OF 1934

Date of Report: January 19, 2011

**BioCryst Pharmaceuticals, Inc.**

*(Exact Name of Registrant as Specified in Charter)*

**Delaware**  
*(State or other jurisdiction  
of incorporation)*

**000-23186**  
*(Commission  
File Number)*

**62-1413174**  
*(IRS Employer  
Identification #)*

**4505 Emperor Blvd., Suite 200 Durham, North Carolina 27703**  
*(Address of Principal Executive Office)*

**(919) 859-1302**  
*(Registrant's telephone number, including area code)*

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2 below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 210.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 5.02 Departure of Directors or Certain Officers; Election of Directors; Appointment of Certain Officers; Compensatory Arrangements of Certain Officers.**

On January 19, 2011, Stuart R. Grant, the Chief Financial Officer of BioCryst Pharmaceuticals, Inc. (the "Company"), notified the Company of his intention to resign from his employment with the Company effective May 31, 2011. Following the loss of his son last year, Mr. Grant has indicated that he intends to devote time this year to travel with his family. He feels that this is an important part of his recovery process. Mr. Grant remains fully committed to his responsibilities with the Company until his resignation and will be involved in the selection of and transition of his responsibilities to his successor.

It is anticipated that Mr. Grant will maintain his relationship with the Company following his resignation through a consulting agreement.

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